

Christy Clark  
3 – 2429 Dobbin Rd  
West Kelowna, BC  
V4T 2L4

OCT 08 2013



October 2 2013

**Re: BC Government commitment to "Cleanest LNG in the World"**

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Dear Ms. Clark,

We applaud you and the Government of British Columbia for your commitment to develop the "cleanest LNG in the world," as outlined in the government's LNG strategy, released in February 2012:

*"LNG development in British Columbia will have lower life cycle greenhouse gas emissions than anywhere else in the world...."*

By its very definition, the LNG life cycle spans emissions from the wellhead through to its end use in Asia. In British Columbia, we are responsible for the emissions from extraction and processing in our gas fields, down to the waterline where it is compressed and loaded onto ships in Kitimat.

In an effort to better understand what it will take to deliver on the government's promise to produce the world's cleanest LNG with respect to life cycle greenhouse gas emissions, Clean Energy Canada at Tides Canada commissioned an analysis.

The resulting report, enclosed, outlines where in the world—and under what circumstances—the LNG with the smallest carbon footprint is currently produced. It also outlines various strategies and technologies that would enable British Columbia's nascent LNG industry to meet or beat current world-leading performance.

Our report concludes that **without policy leadership, LNG produced in British Columbia would emit more than three times the carbon pollution of that produced in current world-leading operations.** The finding is based not only on the emissions of the proposed LNG plants, but on the carbon footprint of the commodity they would produce—from wellhead to waterline.

We conclude that **this leadership gap can be closed if the government directs the energy industry to employ a mix of strategies and technologies proven to drive carbon pollution down all the way across the lifecycle of LNG production** (see enclosed infographic).

By working with industry to specify a variety of these solutions and pushing the envelope of innovation, British Columbia can make good on its promises and deliver the cleanest LNG in the world. Doing so will reduce impacts on communities and ecosystems, provide a competitive advantage in a global energy marketplace increasingly focused on lower carbon energy, and help reduce the recent erosion of the province's hard-earned reputation as a climate leader.

## RECOMMENDATIONS:

### Upstream: Source B.C.'s cleanest gas and process it well

1. Use Montney Gas or Carbon Capture and Storage: Government could require LNG proponents to exclusively source their natural gas from the province's Montney Formation gas field, or mandate carbon capture and storage on any gas sourced from the Horn River basin, which has innately higher greenhouse gas emissions. These strategies could reduce emissions by the equivalent of 0.23 tonnes of carbon dioxide per tonne of LNG produced.

2. Electrify Natural Gas Processing and Plug the Leaks: To reduce greenhouse gas emissions, project developers could use a combination of strategies and tools such as electrification—using electricity instead of natural gas to process natural gas—and low-bleed valves and plunger lifts, which reduce leaks and venting. When combined with emerging technologies these choices could reduce equivalent greenhouse gas emissions by 0.27 tonnes per tonne of LNG produced.

### Downstream: At the LNG plant

3. Electric Drive: To achieve best-in-class LNG, B.C. LNG plants must use electric drive compressors that in turn run on a combination of new renewable power, existing British Columbia grid electricity, and efficient combined-cycle natural gas generators. If the industry adopts this blend of compression technologies and power sources, it will reduce emissions by the equivalent of 0.11 tonnes of carbon dioxide per tonne of LNG produced.

Taken together, the above actions would result in a world-leading industry offering a product competitive to that offered in Norway and Australia.

By requiring and incentivizing industry to adopt the above measures, the Government of British Columbia could head off the release of significant quantities of climate pollution and credibly claim that the proposed industry will produce the cleanest LNG in the world with respect to life-cycle greenhouse gas emissions.

We have included the full report for you to review. Should you have any questions or wish to discuss please contact me at 604-947-2200 or [merran.smith@tidescanada.org](mailto:merran.smith@tidescanada.org)

Sincerely,



Merran Smith  
Director, Clean Energy Canada

Encls: infographic, report  
CC: All BC MLAs

15 June 2013

BC Premier Christy Clark  
Box 9041,  
Station PROV GOVT  
Victoria, BC  
V8W 9E1

Dear Premier Clark,

Liquid Natural Gas Exports

I am very concerned about your announced decision promoting enormous Liquid Natural Gas exports. This will have disastrous consequences for the environment of our province.

Most of the gas that would feed BC's new LNG industry would be obtained using the dangerous extraction method known as hydraulic fracturing ("fracking") - injecting huge amounts of highly pressurized, chemical-laced water deep underground.

There are currently permits in BC gifting 60 million gallons of fresh water to the gas industry every day, from 540 of the province's precious creeks, rivers and lakes. That is twice the amount of water used daily by the entire city of Victoria.

The fracking process uses a number of mysterious chemicals - including radioactive substances - and can result in harmful wastewater that threatens the health of local communities including the un-ceded lands of our First Nations.

After extraction, the plan is to ship most of the fracked gas via pipeline to the north coast, where it would be converted into liquid form at one of several proposed LNG plants. Other proposed plants even include the former Woodfibre site on Howe Sound, an area which has successfully fought older industrial pollution to restore herring and salmon stocks and marine mammals in the Sound.

The process of turning gas into LNG requires huge amounts of energy and produces a massive amount of greenhouse gas emissions (GHGs), creating a serious barrier to our attempts to combat climate change. Even if only five of the proposed LNG plants go ahead, they would release up to 63 million tonnes of carbon into the atmosphere per year - more than the current emissions from the Alberta tar sands and equal to the entire amount of GHGs produced in BC in 2010. This is a scandalous reversal of your government's previous environmental commitments.

Government officials are reportedly "absolutely confident" that at least five LNG terminals will be in operation by 2020, the same year that the province is required to make dramatic reductions in its greenhouse gas emissions. By law BC must cut GHGs by at least 33 percent from 2007 levels, a reduction of 36 million tonnes. It is estimated that just two LNG plants

would render the targets unachievable. The output from extracting, transporting and liquefying the gas would produce an additional 17 million tonnes of emissions per year.

To have a hope of saving our environment for future generations, the province of BC must:

- Curtail these reckless LNG ambitions
- Enact a moratorium on hazardous fracking operations
- Recommit to emissions reduction targets and take meaningful action on climate change

Yours sincerely,

S22

Copies to: Hon. Rich Coleman, Minister of Natural Gas Development  
Hon. Mary Polak, Environment Minister  
Adrian Dix, Leader of the Opposition  
Robin Austin, Natural Gas Development critic  
Spencer Chandra Herbert, Environment critic  
John Horgan, Energy critic  
Nicholas Simons MLA Powell River-Sunshine Coast  
Wilderness Committee  
Sierra Club of BC

July 26, 2013

Honorable Premier Christy Clark, Premier  
Room 156, Parliament Buildings  
Victoria, British Columbia  
V8V 1X4  
[premier@gov.bc.ca](mailto:premier@gov.bc.ca)

Dear Honorable Premier Clark,

**Like many other Canadians I Want Fracking to Stop!!!** The recent increase in Liquefied Natural Gas (LNG) gas exploration is of grave concern to me. It is your government that has increased the number of permits supporting **Fracking** and by doing so you have placed our precious freshwater reserves at risk. Humans, wildlife, the environment and generations beyond will become the victims of poor decisions made today.

The hazardous extraction methods employed through fracking **is not** risk free. Since the implementation of this process:

1. the presence of radioactivity has been identified in our water basins (as radioactive agents are set free by fracking operations),
2. the water volume of the Fort Nelson First Nation freshwater lakes has decreased (water taken from 1,400 different water withdrawal sites) and,
3. chemical residues remain in our consumable water once the fracking process is complete.

Recently I was surprised and concerned to learn that *water-take permits* for the gas industry in the province of British Columbia are awarded solely through the B.C. Oil and Gas Commission. While water remains a precious commodity world-wide, it is the responsibility of government to ensure that proper Water Stewardship begins with an independent commission that has no ulterior motives. The extracted water used in fracking does not belong solely to the B.C. government, nor to the Oil and Gas Industry. **Water that is found on, above or below Canadian territory belongs to all Canadians; it is our birthright and our responsibility to protect.**

...../2

I call on the Government of British Columbia to take leadership and:

1. Stop the reckless pursuit of Liquefied Natural Gas (LNG).
2. Enact a moratorium on hazardous fracking operations.
3. Recommit to emission reduction targets and, take meaningful action on climate change.

Sincerely,

S22

Wilderness Committee Member

cc: Hon. Mary Pollock, Minister of the Environment, Province of British Columbia  
Adrian Dix, Leader of the Official Opposition, Province of British Columbia  
Alan Aderson, (Chair), Environmental Appeal Board of B.C. and Deputy Minister of  
Conservation and Water Stewardship for the Province of British Columbia  
Fred Meier, (Manitoba Rep) Federation of the Water Stewardship Council and Deputy  
Minister of Conservation and Water Stewardship for the Province of Manitoba  
Wilderness Committee

To the Premier,  
I am completely against fracking and LNG plant ambitions. Fracking uses way too much water, lacing it with chemicals, puts pristine water underground at risk for being contaminated, and causes potential earthquakes.

If LNG plants are built, they would release a huge amount of carbon into our atmosphere, which would increase our greenhouse gas emissions.

Destroying our water and our air. This does not make sense. I feel government should be moving away from industries that hurt our clean water and air and towards sustainable and renewable energies.

Please recommit to emissions reducing targets and take positive action on climate change for our children and our children's children.

Shirley

Premier Christie Clark

June 29 / 13

Room 156

S22

Parliament Bldg

Victoria, BC V8V 1X4

Dear Premier Clark:

Re LNG & Fracking

I am writing to express my concern about the possibility of massive growth in the export of LNG gas from BC. I believe the risks (radioactivity, Earthquakes, Toxic chemicals) outweigh by far any economic advantages to our province.

I therefore urge you to put a stop to BC's reckless LNG ambition, to enact a moratorium on hazardous fracking operations & recommit to emissions reduction targets & take meaningful action on climate change.

Thank you

MEMORANDUM

TO:

S22

FROM:

[REDACTED]



Québec, July 12th, 2013

B.C. Premier Christy Clark  
Room 156, Parliament Buildings  
Victoria, BC, V8V 1X4

Dear Premier,

Unprecedented flooding in Toronto, Calgary, High River, the Siksika Nation, and many other places should stand as a warning that unchecked climate change has or will have a cost. The dead and the mourning in Lac-Mégantic also know something of the true cost of a hydrocarbon economy.

That is why British Columbia should think twice about investing too much in natural gas, either in the form of wells relying on fracking or in the form of liquid natural gas development. While natural gas is a cleaner energy than oil from the standpoint of greenhouse gas emissions, that advantage is seriously reduced when the companies converting gas into its liquid form need to burn some of it just to supply customers with the end product. Furthermore, the environmental consequences of fracking mean that though gas produced in this way may be less injurious than oil when it comes to climate impact, it still means a lessened quality of life for neighbours of wells over the medium to long term, long after the gas itself has been burned. While hydro-electric projects and tide-turbines also have a cost, at least they will generate electricity for a long time.

It is time to think about long term solutions. British Columbia is in an ideal position to develop sustainable forestry, eco-tourism, and electrified public transit. Many Canadians like me would be glad to visit British Columbia and support a province truly as green as its rainforests.

Yours sincerely,

S22

S22

October 28, 2013

The Honourable Christy Clark  
Premier of B.C.

I am writing to you today as I am very concerned about the terrible damage that fracking causes.

I am insisting that the province:

1. Put a STOP to B.C.'s reckless liquefied Natural Gas ambitions. There is nothing NATURAL about LNG.
2. Enact a moratorium on hazardous fracking operations.
3. Commit to emissions reduction targets and take meaningful action on climate change.

A positive response to this letter would be appreciated. Fracking has a huge negative impact on the environment so therefore on us. Please don't try to tell me otherwise. I value the health of all (not just people but all living things on this planet) and the health of the planet itself. We have to stop destroying it. It's high time we show respect!

Sincerely,

From: S22  
Sent: Wednesday, June 5, 2013 8:22 PM  
To: OfficeofthePremier, Office PREM:EX  
Cc: Lake.MLA, Terry LASS:EX; Coleman.MLA, Rich LASS:EX; Thomson.MLA, Steve LASS:EX; sunletters@vancouver.sun.com; info@pacificwild.org  
Subject: LNG is no good for B.C.

Honourable Christy Clark  
Premier of British Columbia

cc.

Honourable Rich Coleman—Minister of Energy, Mines and Petroleum Resources  
Honourable Terry Lake—Minister of Environment  
Honourable Steve Thomson—Minister of Forests, Lands and Natural Resources

Dear Premier Clark,

I am writing to express my concern over your government's plan to export liquid natural gas (LNG) through the Great Bear Rainforest.

I am concerned about this plan because LNG is an incredibly energy-intensive fuel. The liquefaction and re-gasification processes alone generate greenhouse gas emissions equivalent to those produced by domestic coal. Expanding fracking and LNG exports will put B.C.'s climate action targets gravely out of reach, something we simply cannot afford.

Current LNG export proposals could introduce as many as 2,800 super-tanker transits to B.C.'s pristine north coast on an annual basis. The risk of ship strikes to endangered whales and other marine mammals is significant.

Additionally, LNG export implies increase natural gas fracking in north-eastern B.C.. Fracking is the only known human-cause of earthquakes. It relies on dozens of toxic chemicals, which undoubtedly pollute ground water aquifers. Fracking is so dangerous that it is banned in France, Bulgaria and the U.S. state of Vermont; the practice is also under moratorium in Quebec.

The fact that proposed LNG export projects are being encouraged, even relied upon, by you and your government prior to comprehensive impact assessments have taken place is short-sighted.

I urge you take a step back and await the results of a full environmental assessment before making any decisions on the export of LNG. B.C. needs a strategy to help regulate industrial development and energy exports to ensure a sustainable and prosperous future.

I look forward to your reply,

Sincerely,

S22

From: Paul Kariya [mailto:Paul.Kariya@cleanenergybc.org]  
Sent: Monday, July 29, 2013 1:18 PM  
To: OfficeofthePremier, Office PREM:EX  
Cc: Minister, ENV ENV:EX; Minister, MNGD MNGD:EX; Minister, ABR ABR:EX; Minister, MEM MEM:EX  
Subject: Letter from The Energy Forum - An Industry-NGO Collaboration

Good Afternoon,

Please see attached letter from The Energy Forum -- An Industry-NGO Collaboration.

Thank you,

Paul Kariya  
Executive Director

354-409 Granville Street | Vancouver, BC V6C 1T2, Canada  
Office: 604.568.4778 | Toll Free: 1855.568.4778 | Cell: 604.818.1827 | Fax: 604.568.4724  
paul.kariya@cleanenergybc.org

[www.cleanenergybc.org](http://www.cleanenergybc.org)

July 29, 2013

The Honourable Christy Clark  
Premier of British Columbia  
Box 9041  
Station PROV GOVT  
Victoria, BC V8W 9E1

Dear Premier Clark,

**RE: Cleanest LNG in the World**

We are writing on behalf of The Energy Forum: a collaboration between BC power producers, industry associations, and non-government organizations that are working to address energy, climate, and ecosystem challenges. We congratulate you on the recent re-election of your BC Liberal government, as well as your by-election victory.

The member organizations of The Energy Forum have been engaged in dialogue over the past two years. We have been exploring areas of shared values and opportunities for the clean energy industry and environmental NGOs to collaborate on policy recommendations and public engagement. More regarding our history and our Shared Principles can be found at [www.energyforum.ca](http://www.energyforum.ca).

We are writing today regarding the prospects for liquefied natural gas (LNG) in BC, which has been a key focus of your vision for your new term. Our members were pleased to see that your vision for LNG includes a strong emphasis on environmental protection, in particular your instruction to Minister Mary Polak and Minister Rich Coleman to "ensure that LNG operations in British Columbia are the cleanest in the world". That is an ambitious commitment and we applaud your principled stand on this point.

LNG has also been a key focus for The Energy Forum due to the scale of its potential opportunities and environmental impacts. We agree that it's critically important for any LNG development in BC to be the cleanest in the world. Therefore, we will be working to explore what exactly would need to be accomplished in order for BC LNG to meet this commitment. We appreciate that time is of the essence and decisions (investment, technology, policy) will be made quickly.

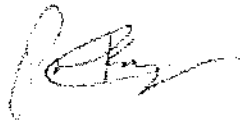
Our process will involve research into environmental protection mechanisms currently being employed at other commercial LNG operations around the globe: at points of gas extraction, transportation, compression, and shipping, and including utilization of clean electricity. We are also planning further public engagement on this topic to determine what kinds of environmental protections are most important to British Columbians, particularly those in northern communities, including aboriginal communities. We expect that the definition that we arrive at will describe LNG operations that meet or exceed current best practices in the areas of greenhouse gas emissions, local air quality and human health, water protection, biodiversity, sustainable economic development, and First Nations stewardship / rights & title, as well as an

integrated, strategic approach to managing the cumulative impacts of multiple projects on these values.

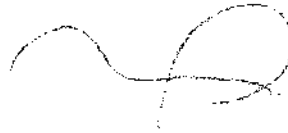
We would like to meet with you to discuss these issues, B.C.'s climate action plan and the transition towards a fully renewable energy powered future. We look forward to further engagement with your government on this critically important topic.

Sincerely,

for The Energy Forum<sup>1</sup>:



Paul Kariya  
Executive Director  
Clean Energy BC



Merran Smith  
Director  
Clean Energy Canada at Tides Canada

cc Honourable Mary Polak, Minister of Environment  
Honourable Rich Coleman, Deputy Premier and Minister of Natural Gas Development  
and Minister Responsible for Housing  
Honourable John Rustad, Minister of Aboriginal Relations and Reconciliation  
Honourable Bill Bennett, Minister of Energy and Mines and Minister Responsible for  
Core Review



<sup>1</sup> Please respond to Paul Kariya, Executive Director, Clean Energy Association of BC (604.668.4778; paul.kariya@cleanenergybc.org) and Merran Smith, Director, Clean Energy Canada at Tides Canada (604.947.2200; merran.smith@tidescanada.org )

From:

S22

Sent: Friday, October 4, 2013 13:44

To: OfficeofthePremier, Office PREM:EX; Dix.MLA, Adrian LASS:EX

Subject: develop LNG with lower LNG life cycle greenhouse gas emissions than anywhere else in the world

Dear Premier Clark and Adrian Dix,

We need to continue shifting to a clean energy economy and make British Columbia a climate solutions leader.

If the Provincial government is going to develop LNG, it must uphold its promise to do so with the smallest possible climate impact. That means, the footprint of LNG doesn't begin and end at the plant's fence line. Stick to your commitment to develop LNG with lower life cycle greenhouse gas emissions than anywhere else in the world, as that is an additional 17 million tonnes of carbon that should stay in the ground!

I appreciate a written response regarding why there appears to be a change in commitment on LNG carbon accounting at the leadership level.

S22



From: S22  
Sent: Friday, October 4, 2013 13:30  
To: OfficeofthePremier, Office PREM:EX  
Cc: Dix.MLA, Adrian LASS:EX  
Subject: commitment to the lowest LNG emissions

Dear Premier Clark,

I understand that this week, Premier Clark, you said the commitment to produce LNG with the lowest emissions in the world only applies to pollution released at the actual plants, and not the fuel's full (i.e. "life cycle") carbon footprint.

Ideally, we would not be developing LNG at all, and instead continue shifting to a clean energy economy with BC recommitting to meaningful climate leadership.

However, if BC is to develop LNG, you must acknowledge and act with the understanding that the footprint of LNG doesn't begin and end at a plant's fence line.

Please ensure the government sticks to its commitment to develop LNG with lower life cycle greenhouse gas emissions than anywhere else in the world.

If the government is going to develop this new industry, it must uphold its promise to do so with the smallest possible climate impact.  
sincerely,

S22

From: S22  
Sent: Friday, October 4, 2013 13:25  
To: OfficeofthePremier, Office PREM:EX; Dix.MLA, Adrian LASS:EX  
Cc: info@betterfuturebc.ca  
Subject: LNG Development

I understand the government has committed to further development of an LNG industry in BC. Please uphold your promise to develop this industry with the least possible climate impact. Please ensure BC's LNG industry has the lowest lifecycle greenhouse gas emissions in the world. To do so would help protect BC from rising damage due to climate change and ensure that we are seen as leaders around the world. Thank you,

S22  
Victoria BC

-----Original Message-----

From: S22  
Sent: Friday, October 4, 2013 13:21  
To: OfficeofthePremier, Office PREM:EX  
Subject: lower emissions from LNG

Hello Premier's office;

Please stick to the commitment to develop LNG with lower life cycle greenhouse gas emissions than anywhere else in the world.

BC can lead Canada in the reduction of harmful emissions.

This can be part of BC's renewed commitment to meaningful climate leadership.

thank you,

S22

From: S22  
Sent: Friday, October 4, 2013 15:26  
To: OfficeofthePremier, Office PREM:EX  
Cc: Dix.MLA, Adrian LASS:EX  
Subject: LNG, pipelines and GHG emissions targets

Dear Premier Clark,

I am writing to express my concern about your recent comments, suggesting that you are warming to the idea of having pipelines cross our province and tankers in the waters off our coast. I do hope you have the gumption to stick to the letter of your pledge not to support these projects unless your five conditions are met. Please don't sell out our province with excuses or half-truths which make it easier to say that your conditions have been met. World-leading spill response capabilities are just that -- it means that we have superior spill response systems to anywhere else in the world. Aboriginal treaty rights must be respected, not just given lip service.

Since your government seems firmly on track to develop LNG resources, I hope that you at least stick to your commitment to develop LNG with lower life cycle greenhouse gas emissions than anywhere else in the world. This can't be done if the power needed for liquefaction is generated from natural gas itself, even if you make some arbitrary declaration that somehow natural gas is "clean fuel" if used for this purpose. Of course these emissions should be calculated as part of our provincial total! They will have an effect on global warming, and it's infantile to simply say "These ones don't count" and wish them away. If we are going to miss our provincial emissions reduction targets, then I trust that your government is confident enough in its choices to provide honest information to us and to the world. If not, then please leave the gas in the ground. In my opinion, leaving it in the ground is the best course of action, anyway.

I believe we should not invest in new infrastructure which would increase net GHG emissions in the long run, which these projects surely would. If the LNG plants really must go ahead, I would see the establishment of clean, renewable energy generation to power the plants as more acceptable than allowing them to be powered by gas. At least we'd have a legacy of clean energy generation to draw on when gas finally is phased out.

Sincerely,

S22  
Kamloops, BC

-----Original Message-----

From: S22  
Sent: Friday, October 4, 2013 14:34  
To: OfficeofthePremier, Office PREM:EX  
Cc: Minister, MNGD MNGD:EX; Minister, ENV ENV:EX  
Subject: greenhouse gas emissions from LNG operations

Dear Premier Clark,

Recently you were reported in the media saying that developing the "cleanest" liquefied natural gas (LNG) export industry in BC did not include the upstream emissions of production to supply the gas commodity to the LNG facilities.

Greenhouse gas emissions from the production of natural gas can be very considerable and they must be included in the overall life cycle of LNG production for the concept of being "clean" or "green" to have any meaning. I urge you to affirm that the upstream emissions will be included in the scope of "greening" BC LNG export facilities.

Your mandate to develop an LNG industry is conditional on your promise to British Columbians that the industry in BC would be the "cleanest in the world." British Columbians expect you to keep that promise.

Regards,

S22

cc: Mary Polak, Minister of the Environment  
Rich Coleman, Minister of Natural Gas

From: S22  
Sent: Friday, October 4, 2013 14:31  
To: OfficeofthePremier, Office PREM:EX  
Subject: LNG

Dear Premier,

Please stick to your commitment to develop LNG with lower life cycle greenhouse gas emissions than anywhere else in the world and commit BC to meaningful climate leadership.

We are all watching...

thank you for your time

S22

From: S22  
Sent: Monday, October 7, 2013 00:07  
To: OfficeofthePremier, Office PREM:EX  
Subject: greenhouse gas emissions from LNG

Dear Ms. Clark.

I would like to commend you for your promise to make BC's LNG development the cleanest in the world.

I have one concern however: will emissions be measured for the full life cycle of the LNG?

Thank you again for your leadership. I look forward to your reply.

Sincerely,

S22  
Victoria

-----Original Message-----

From: S22  
Sent: Saturday, October 5, 2013 10:07  
To: OfficeofthePremier, Office PREM:FX  
Subject: LNG industry carbon promise

Dear Premier Clark,

Last year you promised that "LNG development in British Columbia will have lower life cycle greenhouse gas emissions than anywhere else in the world." This week you said that this promise only applies to the LNG plants themselves, not the full ("life cycle") carbon footprint of natural gas development in BC. This is disingenuous: the "life cycle" emissions of a development means all the emissions of a product, from beginning to end, not just one stage along the way.

As the recent IPCC report makes clear, it is absolutely critical to reduce carbon emissions worldwide, including in BC. BC has been (rightly) held up as a model to follow, because the carbon tax was so successful both economically and environmentally. Unfortunately in the last election you also promised to freeze the carbon tax, and not to expand it to cover fugitive emissions. If you are going to break any promises, please break those! It would force the energy industry to become more efficient and reduce carbon emissions. (It would also go a long way to helping you to keep the LNG life cycle promise!)

Please respond to explain what promise you will keep, and if it will not increase / expand the carbon tax, what else your government will do to reduce carbon emissions in BC.

Yours truly,

S22

New Westminster, BC



From: S22  
Sent: Saturday, October 5, 2013 09:58  
To: OfficeofthePremier, Office PREM:EX; Dix.MLA. Adrian LASS:EX  
Subject: Our footprint and our future

Vancouver, BC  
5 Oct 2013

To government leaders:

Premier Christie Clark and Opposition Leader Adrain Dix  
British Columbia Legislature  
Victoria, BC

Dear Ministers:

We have a responsibility to keep our footprint to a minimum and ensure that we are not responsible for increasing those already far too large with greenhouse gas emissions. So, you may be aware that British Columbians would prefer to keep 17 million tonnes of carbon in the ground.

Ideally, we would not be developing gas or oil but investing mightily in clean, sustainable energy like solar, wind, water, geotherm and with far more forethought than we are giving this whole subject now.

Young people are not voting and the fact that governments are taking for granted that they have the freedom to enact anything that suits their personal interests, mainly to keep them in power, is not helping to convince the 18 - 24 year olds that there is any point in voting. Their needs are certainly not being met while big business thrives and takes their future away from them. In fact, young people can't even get a job worth having due to treaties signing away our production and concentration on corporate power.

If we are going to have a province at all, we have to recognize what we need to keep it alive, and the extractive business is hardly adequate. But, there are green jobs that will serve both purposes: finding sustainable energy and providing a future for our young people.

Thank you for your attention to what I consider to be an urgent matter and I look forward to hearing the it is being resolved with respect for the future of British Columbia and our youth.

Respectfully,

S22

Treason: The Violation of Trust

<http://www.barnesandnoble.com/sample/read/9781462805310>

From: S22  
Sent: Friday, October 4, 2013 20:43  
To: OfficeofthePremier, Office PREM:EX; Dix.MLA, Adrian LASS:EX  
Cc: info@betterfuturebc.ca  
Subject: LNG Development

To Premier Clark and Leader of Opposition Dix:

News about developing a new LNG industry in BC has been in discussion lately.

The province stated last year in regards to LNG:  
LNG development in British Columbia will have lower life cycle greenhouse gas emissions than anywhere else in the world.

However, Premier Clark recently stated that the "lower life cycle GHG emissions" apply only to the pollution created at the plants, and not the full life cycle of GHG emissions.

Scientists around the world have "unequivocally" determined that global climate change is caused by humans. Developing LNG industry in BC will contribute to climate change.

BC has many natural resources available, and could become a leader in green power technology. I call on the province of BC to recommit to meaningful climate leadership.

I look forward to your response on this matter.

Best Regards.

S22

Argenta, BC

From:

S22

Sent: Saturday, October 5, 2013 09:32

To: OfficeofthePremier, Office PREM:EX

Cc: Coleman.MLA, Rich LASS:EX; suzanne.anton.mla@leg.bc.ca; dan.ashton.mla@leg.bc.ca; Barnett.MLA, Donna LASS:EX; Bennett.MLA, Bill LASS:EX; mike.bernier.mla@leg.bc.ca; doug.bing.mla@leg.bc.ca; Bond.MLA, Shirley LASS:EX; Cadieux.MLA, Stephanie LASS:EX; Coleman.MLA, Rich LASS:EX; Dalton.MLA, Marc LASS:EX; deJong.MLA, Mike LASS:EX; peter.fassbender.mla@leg.bc.ca; Foster.MLA, Eric LASS:EX; simon.gibson.mla@leg.bc.ca; scott.hamilton.mla@leg.bc.ca; Hogg.MLA, Gordon LASS:EX; gary.holman.mla@leg.bc.ca; Horne.MLA, Douglas LASS:EX; marvin.hunt.mla@leg.bc.ca; lgreg.kyllo.mla@leg.bc.ca; Lake.MLA, Terry LASS:EX; linda.larson.mla@leg.bc.ca; Lee.MLA, Richard LASS:EX; Letnick.MLA, Norm LASS:EX; Martin.MLA, John LASS:EX; McRae.MLA, Don LASS:EX; mike.morris.mla@leg.bc.ca; coralee.oakes.mla@leg.bc.ca; Pimm.MLA, Pat LASS:EX; darryl.plecas.mla@leg.bc.ca; Polak.MLA, Mary LASS:EX; Reid.MLA, Linda LASS:EX; Reimer.MLA, Linda LASS:EX; Rustad.MLA, John LASS:EX; michelle.stilwell.mla@leg.bc.ca; Stilwell.MLA, Moira LASS:EX; todd.stone.mla@leg.bc.ca; Sturdy.MLA, Jordan LASS:EX; sam.sullivan.mla@leg.bc.ca; Sultan.MLA, Ralph LASS:EX; jackie.tegart.mla@leg.bc.ca; Thomson.MLA, Steve LASS:EX; Thornthwaite.MLA, Jane LASS:EX; laurie.throness.mla@leg.bc.ca; amrik.virk.mla@leg.bc.ca; teresa.wat.mla@leg.bc.ca; andrew.wilkinson.mla@leg.bc.ca; Yamamoto.MLA, Naomi LASS:EX; Yap.MLA, John LASS:EX

Subject: Fracking: IPCC Warns Methane Traps Much More Heat

Hi,

BC Gov't announces study on LNG emissions - again I'm proven to be a hopeless Pollyanna: until I read that the study was only for the Kitimat airshed area I thought your gov't had done the right thing. Yes, such a study is good gov't for the Kitimat area residents, but where is the emissions study that includes fracking, transportation and LNG compression, plus some consideration of the impact of emissions from this exported natgas when it is burned? Where is proper due diligence for future generations?

Pasted on below are two relevant to BC LNG articles considering new science including references in the new IPCC report on methane emissions and a global carbon budget to stay under a 2C temperature rise. Each has an informing perspective and links to more relevant science. BTW, you can access the full IPCC AR5 report here in convenient chapters; I urge you to browse and dip in deeper to get a better understanding of the IPCC process and the sheer magnitude and depth of the science reviewed.

The best quote I've found on the new IPCC report is by HSBC climate change center head Nick Robins: "The key thing now is taking this very high quality science and then translating it into a risk management strategy for business which is [a] question both of size of impact and the probability of impact. We actually need to avoid not just the most likely scenarios but those long-tail high-impact scenarios as well."

Finally a Dutch group called Urgenda is suing it's government over it's failed climate change policy. Courts are maybe the only institutions in our society where evidence-based decision making can overcome the many shades of denial and obfuscation limiting effective climate mitigation. The climate science, the full suite of possible climate dangers, international and national agreements, and present governmental action within this context can be reasonably sorted out and, hopefully, a verdict reached so that at least in that jurisdiction everybody can be on the same page about whether the government has acted properly. IMHO, the LNG issue is still open, but consider such a court case where the Harper gov't is accused of openly breaking it's international emissions commitments (and any hope of establishing and reaching Canadian compliance with a global carbon budget) by making oilsands expansion as Canada's foremost economic engine it's primary agenda. Could there be any other verdict but guilty? And what about the Alberta gov't? And other gov'ts that aid or facilitate such an expansion of the dirtiest of unconventional oil at this crucial time?

Will a liquefied-natural-gas frenzy blow B.C.'s carbon budget?

by Marc Lee on Oct 2, 2013 at 11:36 am

<http://www.straight.com/news/497706/will-liquefied-natural-gas-frenzy-blow-bcs-carbon-budget>

Shutterstock

Last week's report from the Intergovernmental Panel on Climate Change reaffirmed the scientific consensus that global warming is happening and is primarily caused by human use of fossil fuels (coal, oil, and natural gas) for our energy needs.

For the first time, however, the IPCC stated an upper limit on total greenhouse-gas emissions, a global "carbon budget" to keep temperature increase below 2 ° C—the aspirational target for international negotiations and considered the threshold for "dangerous" climate change.

The scientists of the IPCC reckon that we have already burned through more than half of our total carbon budget going back to the mid-19th century. Humanity's remaining carbon budget is about 921 billion tonnes (921 gigatonnes, or Gt) of carbon dioxide (CO<sub>2</sub>). That's about 30 years of fossil-fuel emissions worldwide. It would provide a 66-percent chance of staying below 2 ° C; if we lower the odds to those of a coin toss (50 percent), we can emit up to 1,068 Gt of CO<sub>2</sub>.

What does this mean for B.C.?

A carbon budget would be a wake-up call for a province dreaming of fossil-fuel riches, including development of a liquefied-natural-gas (LNG) export industry. Political commitments on climate action, to the extent they exist, are usually pitched in terms of targets and time lines. B.C., for example, has a legislated target of 33 percent below 2007 levels by 2020.

B.C.'s fair share of this global carbon budget would be determined by international negotiations. If the budget were allocated equally—based on share of the world's population—B.C.'s carbon budget would be 0.6 Gt (for the 66-percent chance above). This amounts to a mere decade of emissions at current levels.

B.C. would have more room to work with if we were allocated a carbon budget in line with our share of GDP. This would mean a more comfortable 2.8 Gt, some 45 years of emissions at current levels. But such a budget is hard to square with the massive emissions profile of LNG.

The higher number is wishful thinking anyway. International negotiations have centred on "historical emissions": rich countries have burned fossil fuels for more than a century with no thought to climate change, so they should be required to make disproportionate emission reductions.

Even assuming B.C. secures a carbon budget at the high end, we still have a big problem: B.C.'s reserves of coal and natural gas are way larger than any plausible carbon budget. Natural-gas reserves are equivalent to 55 Gt if combusted into CO<sub>2</sub>. B.C.'s coal reserves represent another 40 Gt if combusted. Together, that fuel, safely sequestered belowground, is almost three years' worth of worldwide emissions.

This implies that the vast majority of those reserves need to stay in the ground. Plans for an LNG export industry need to be seriously rethought in light of carbon budgeting.

Although most of the emissions from B.C.'s fossil fuels are exported—other countries combust the fuel and would count the emissions as part of their carbon inventory—B.C. still has to count the emissions from extracting and processing fossil fuels. These domestic emissions could come down if B.C. got serious about making the "cleanest LNG in the world".

But in a carbon-constrained world, other countries will also have to live within their own carbon budgets. They, too, will have to cut back on fossil fuels in favour of renewables.

Ongoing extreme weather, oil spills, and train wrecks suggest it is only a matter of time before the world gets serious about carbon budgets. B.C.'s LNG plans double down on the old fossil-fuel economy and could come to represent tens of billions of dollars in stranded assets.

A carbon budget tells us B.C. must invest heavily in precisely the opposite: green infrastructure, such as public transit, high-speed rail, and zero-waste facilities. Funded by an expanded carbon tax, climate action is also a superior jobs policy to LNG.

The challenge of every jurisdiction is to figure out how to live within a carbon budget while providing the "good life" for all. Future generations will wonder why it took us so long to get started.

Marc Lee is a senior economist in the B.C. office of the Canadian Centre for Policy Alternatives and is the codirector of the Climate Justice Project. His latest study, *Canada's Carbon Liabilities: The Implications of Stranded Fossil Fuel Assets for Financial Markets and Pension Funds* (with Brock Ellis), is available at [www.policyalternatives.ca/publications/reports/canadas-carbon-liabilities](http://www.policyalternatives.ca/publications/reports/canadas-carbon-liabilities).

More Bad News For Fracking: IPCC Warns Methane Traps Much More Heat Than We Thought

By Joe Rommon October 2, 2013 at 11:56 am

<http://thinkprogress.org/climate/2013/10/02/2708911/fracking-ipcc-methane/>

Methane leaks in Boston area. Yellow indicates methane levels above 2.5 parts per million. Via NY Times.

The Intergovernmental Panel on Climate Change (IPCC) reports that methane (CH<sub>4</sub>) is far more potent a greenhouse gas than we had previously realized.

This matters to the fracking debate because methane leaks throughout the lifecycle of unconventional gas. Natural gas is, after all, mostly methane (CH<sub>4</sub>).

We learned last month that the best fracked wells appear to have low emissions of methane, but that study likely missed the high-emitting wells that result in the vast majority of methane leakage. Back in August, a NOAA-led study measured a stunning 6% to 12% methane leakage over one of the country's largest gas fields — which would gut the climate benefits of switching from coal to gas.

We've known for a long time that methane is a far more potent greenhouse gas than carbon dioxide (CO<sub>2</sub>), which is released when any hydrocarbon, like natural gas, is burned.

But the IPCC's latest report, released Monday ( big PDF here), reports that methane is 34 times stronger a heat-trapping gas than CO<sub>2</sub> over a 100-year time scale, so its global-warming potential (GWP) is 34. That is a nearly 40% increase from the IPCC's previous estimate of 25.

The global-warming potential (GWP) of methane over 20 years and 100 years, with and without climate-carbon feedbacks (cc fb). Via IPCC.

Amazingly, the EPA has been using a GWP of 21 for its estimate of how methane compares to carbon dioxide — a figure that is nearly twenty years out of date. That means methane is a whopping 60% stronger than EPA calculates in its GHG inventory. Back in April, EPA finally said it was thinking about raising the GWP — to 25!

EnergyWire ( subs. req'd) reports:

"The IPCC presents the scientific consensus, so its conclusions are inherently conservative," said Hugh MacMillan, senior researcher with Food and Water Watch. "It's bizarre that the EPA is just now moving to adopt the GWPs from 2005. Is the agency going to wait until 2025 to use these new GWPs?"

If a new GWP of 34 were adopted, the contribution of methane to U.S. emissions would significantly increase.

The revised number means fracking is worse for the climate than we thought and the benefit of replacing coal with fracked gas is lower than we thought. "There is a very real sense in which using dated numbers downplays the problem [from the] oil and gas industry," MacMillan said.

Significantly, although the 100-year GWP is by far the most widely used, the IPCC drops this mini-bombshell 86 pages into the report:

There is no scientific argument for selecting 100 years compared with other choices (Fuglestvedt et al., 2003; Shine, 2009). The choice of time horizon is a value judgement since it depends on the relative weight assigned to effects at different times.

The IPCC reports that, over a 20-year time frame, methane has a global warming potential of 86 compared to CO<sub>2</sub>, up from its previous estimate of 72. Given that we are approaching real, irreversible tipping points in the climate system, climate studies should, at the very least, include analyses that use this 20-year time horizon.

Finally, it bears repeating that natural gas from even the best fracked wells is still a climate-destroying fossil fuel. If we are to avoid catastrophic warming, our natural gas consumption has to peak sometime in the next 10 to 15 years, according to studies by both the Center for American Progress and the Union of Concerned Scientists.



From: S22  
Sent: Friday, October 4, 2013 17:29  
To: OfficeofthePremier, Office PREM:EX  
Cc: Dix.MLA, Adrian LASS:EX  
Subject: LNG

The B.C. government should only develop LNG with lower life cycle greenhouse gas emissions than anywhere else in the world. If not, leave it in the ground. The footprint of LNG does not begin and end at a plant's fence line.

S22  
Galiano Island, British Columbia

-----Original Message-----

From: S22  
Sent: Friday, October 4, 2013 15:46  
To: OfficeofthePremier, Office PREM:EX  
Cc: info@betterfuturebc.ca  
Subject: LNG

Dear Premier Clark:

Last year, you promised that:

LNG development in British Columbia will have lower life cycle greenhouse gas emissions than anywhere else in the world.

This week, however, you appeared to backpedal on your government's commitment, saying that the commitment to produce LNG with the lowest emissions in the world only applies to pollution released at the actual plants and not the fuel's full (i.e. "life cycle") carbon footprint.

I want to remind you that the footprint of LNG doesn't begin and end at a plant's fence line. I want you to ensure that your government sticks to its commitment to develop LNG with lower life cycle greenhouse gas emissions than anywhere else in the world. I would prefer that 17 million tonnes of carbon stay in the ground. I ask that your government recommit to meaningful climate leadership.

Sincerely,

S22

-----Original Message-----

From: S22  
Sent: Friday, October 4, 2013 15:32  
To: OfficeofthePremier, Office PREM:EX  
Cc: Dix M.L.A., Adrian LASS:EX  
Subject: Green committment

Premier Christy Clark

It was British Columbians like you who made climate action a priority for B.C. back in 2007. And again, it will be citizens again who will determine if the province will be a climate solution leader or laggard in the future.

I'm grateful the Andrew Weaver is there help keep you to your commitment to develop LNG with lower life cycle greenhouse gas emissions than anywhere else in the world. Please keep that 17 million tonnes of carbon stay in the ground. And let them know that you want B.C. to recommit to meaningful climate leadership:

KEEP BC GREEN.

Sincerely,

S22

From: S22  
Sent: Thursday, October 10, 2013 12:02  
To: OfficeofthePremier, Office PREM:EX  
Subject: Please stick to your commitment on lower LNG GHG emissions

Dear Premier Clark

Last year you promised that "LNG development in BC will have lower life cycle greenhouse gas emissions than anywhere else in the world". I was disappointed to hear you infer that this now only applies to the plants and not to the overall carbon footprint of the the LNG lifecycle. This is not in line with the global leadership BC has shown on climate policy and in particular is a short sighted move in terms of making responsible decisions that leave a positive legacy for our children and future generations.

Please ensure that you stick to your commitment to develop LNG with lower lifecycle GHG emission than anywhere else in the world. This can be a positive innovation incubator and a great example of meaningful climate leadership, instead of something we are ashamed to talk to our children about.

I trust you will do the right thing for your son and my daughter and not walk from what could be a solid innovation strategy and strong climate change leadership.

Best regards,

S22

We are called to be architects of the future, not its victims. - Buckminster Fuller

From: S22  
Sent: Monday, October 14, 2013 7:32 AM  
To: OfficeofthePremier, Office PREM:EX  
Subject: Liquid Natural Gas

Good Morning Premier Clark:

I have some concerns over the proposed liquid natural gas (LNG) industry the BC Government is fostering:

- 1) BC has become a world leader in reducing greenhouse gas emissions to try to reduce climate change. Did you know that could be wiped out overnight when the first LNG plant starts up? Why? If the plant(s) use natural gas themselves to make the LNG it will burn as much natural gas each and every day as all of BC households and industry use every day!! That will have a huge increase in our greenhouse gas emissions, wiping out any gains we have made. Not to mention a huge waste of all that gas. If they choose to use electricity, then it will take as much electricity as the WAC Bennett dam produces in a day. Where will all that electricity come from? (See below)
- 2) It is my understanding that Site C dam is being considered to supply electricity that unless LNG goes ahead, that electricity is not required. Site C will cause people to have to move, destroy farmland and cause further debt problems for our government.
- 3) Pipelines will still need to be constructed through wilderness in some areas from the gas fields to Kitimat. This will damage the environment during construction, impact fish and wildlife forever and be a big scar on our landscape.
- 4) The vast majority of all this gas will have to be recovered using hydraulic fracturing. (Fracking) This is very bad for the environment. Vast quantities of precious water and (unknown) chemicals are pumped underground wasting and then polluting all that water. What a waste of valuable water. No one really knows for sure just how bad all that is. Please stop fracking now!!
- 5) What is BC supposed to heat its homes and run its existing industries with once we sell all our natural gas offshore in 10 or 20 years?

I strongly believe the BC government needs to rethink the whole LNG idea. It was announced way too soon before all my above questions were even thought of.

Thanks for taking the time to address my concerns.

Awaiting a reply

S22

From:

Sent: Saturday, October 12, 2013 10:27 AM

To: Minister, ENV ENV:EX; Minister, MEM MEM:EX; OfficeofthePremier, Office PREM:EX

Cc: info@skcenawatershed.com; info@nomorepipelines.ca; Donaldson.MLA, Doug LASS:EX; Austin.MLA, Robin D LASS:EX; Rice.MLA, Jennifer LASS:EX

Subject: pipelines - Ms. Clark, please pay attention and consult

S22

Oct 12, 2013

BC Premier Clark – [premier@gov.bc.ca](mailto:premier@gov.bc.ca)

BC Minister of Environment – [env.minister@gov.bc.ca](mailto:env.minister@gov.bc.ca)

BC Minister of Mines – [EMH.Minister@gov.bc.ca](mailto:EMH.Minister@gov.bc.ca)

### **Natural Gas Pipelines and Liquid Natural Gas Plants in Northwestern BC**

Dear Premier Clark:

As a former citizen of northwestern BC, current property owner and, I hope, S22

S22 I am greatly concerned that natural gas (NG) and liquid natural gas (LNG) development is being proposed for the region, without any consultation of the local populace. Concerned citizens are now being asked to comment, in separate environmental assessment processes, on proposed natural gas pipelines and on proposed LNG terminals. How can the BC Environmental Assessment Office have begun evaluating proposals when there has been no mandate from the people who live here, that the proposals should proceed?

I have concerns with:

- The intent and lack of consultation inherent in British Columbia's Natural Gas Strategy;
- The number of proposed natural gas pipelines through northwestern BC to the North Coast, and the duplication of proposed routes through extensive wilderness areas;
- The proposed construction of LNG terminals on the North Coast.

**I have quite desperate concerns for the health of the population with the impact of pipeline spills, "off gassing" sites along pipelines and the potential for fracking that often follows pipeline development. The Northwest corner of BC is one of the most pristine areas of Canada, and the health of the area supports the health of the people.**

### **British Columbia's (Lack of a) Natural Gas "Strategy"**

The BC government released British Columbia's Natural Gas Strategy in February 2012, with a focus on developing the LNG sector. The BC Liberal party platform tells us, among other things:

"LNG facilities are currently proposed by business groups that include some of the world's biggest energy companies – Shell, Imperial, Chevron, British Gas, Petronas, SK & ES of South Korea, Inpex, and the Chinese National Offshore Oil Corporation, to name some of the major players. It is no

fantasy".

I have followed the story. You have politicized the discussion around natural gas extraction and transmission, and its conversion into LNG, to the exclusion of any potential impacts, save economic ones. You are lauding companies, several of which are among the most notorious, ethically and environmentally, in an industry known for ethical and environmental disasters.

/2

Currently, northwestern BC has an economy that is considered stable. It is based upon sustaining a quality of life that may not be fully understood by those who live in urban areas. This quality includes the protection of fish, wildlife, forests, watercourses, air-scapes, and aboriginal cultures. It places an intangible value on wilderness. There is no appetite in northwestern BC for the oil and gas industry, and its residents will vehemently oppose that industry across vast reaches of wild land.

The struggles of the region involve to some significant extent the pillars of infrastructure that are education, health care and small business.

S22

I will instead be encouraging my family - long time contributors to the health and future of the area - to leave the area should the LNG projects proceed. There are far too many documented health hazards in relation to pipelines and fracking for reasonable people with choices to stay!

It is time for the BC government to become fully and respectfully engaged with communities and with First Nations in northwestern BC on this issue.

### **Proposed Pipeline and Terminal Developments**

Your government is entertaining proposals for six natural gas pipelines that would cross northwestern BC, and four LNG plants that would be built on the North Coast. As well, Enbridge's proposed Northern Gateway project is still on the table, as is the proposed oil refinery at Kitimat. All this proposed development is going ahead without the public's interest in its land, or the broader interest of the planet being taken into account. There is no vision here, other than economic; no full cumulative effects assessment on the horizon; no consideration of what may happen if the LNG market were to collapse after all this infrastructure was built, and the associated companies were to pull out. Mining companies post cleanup bonds? What about applying the same obligation to pipeline companies?

The people of northwestern BC demand that our vision for a healthy future be safeguarded. We do not support a vast increase in greenhouse gas emissions at wells in northeastern BC, at North Coast LNG plants, and at end-user facilities in Asia, that will certainly result from your government's natural gas "strategy". We do not support multiple, linear paths of disruption through a globally recognized wilderness. We do not support the outright risk to wild salmon and other creatures and to watercourses. It is time to deal with the reality of climate change and how it will affect our children's future and our grandchildren's future. We live here; we are not going to go away. We demand that our voices be heard; that government provide an intelligent, non-economically driven response. We demand political action to counter climate change!

### **What You Need to Do, Premier Clark**

Please call a moratorium on all NG pipeline and LNG terminal proposals. Then, your government needs to consult meaningfully with the people of northwestern BC before any proposed development proceeds.

Sincerely,

S22

cc:

Stikine MLA: [doug.donaldson.mla@leg.bc.ca](mailto:doug.donaldson.mla@leg.bc.ca)

Skeena MLA: [robin.austin.mla@leg.bc.ca](mailto:robin.austin.mla@leg.bc.ca)

North Coast MLA: [jennifer.rice.mla@leg.bc.ca](mailto:jennifer.rice.mla@leg.bc.ca)

Skeena Watershed Conservation Coalition: [info@skeenawatershed.com](mailto:info@skeenawatershed.com)

NoMorePipelines.ca: [info@nomorepipelines.ca](mailto:info@nomorepipelines.ca)



-----Original Message-----

From: S22  
Sent: Friday, October 18, 2013 13:15  
To: OfficeofthePremier, Office PREM:EX  
Cc: adrian dix; S22  
Subject: LNG Development in BC

Hon. Premier Christy Clarke,

Last year your government stated that LNG development will have the lowest life cycle greenhouse gases in the world. Now you are saying that that applies to only LNG plant emissions and not the fuel's life cycle or carbon footprint. This equates, then, to an extra 17 million tons of greenhouse gas pollution; quite a half-truth I'd say. A significant aspect of LNG pollution that your government conveniently omits in its glowing press releases is the significant and permanent pollution of BC's increasingly valuable water resource by fracking. To risk the health and supply of the one resource that we cannot do without is arrogant at best and morally indefensible at the worst.

I am calling up your government, then, to forgo the LNG pipe dream and exercise real leadership in the support of innovative clean energy technology (real clean jobs).

S22 Summerland, BC

From:

S22

Sent: Friday, October 18, 2013 12:44

To: OfficeofthePremier, Office PREM:EX

Cc: Coleman.MLA, Rich LASS:EX; suzanne.anton.mla@leg.bc.ca; dan.ashton.mla@leg.bc.ca; Barnett.MLA, Donna LASS:EX; Bennett.MLA, Bill LASS:EX; mike.bernier.mla@leg.bc.ca; doug.bing.mla@leg.bc.ca; Bond.MLA, Shirley LASS:EX; Cadieux.MLA, Stephanie LASS:EX; Coleman.MLA, Rich LASS:EX; Dalton.MLA, Marc LASS:EX; deJong.MLA, Mike LASS:EX; peter.fassbender.mla@leg.bc.ca; Foster.MLA, Eric LASS:EX; Gibson.MLA, Simon LASS:EX; scott.hamilton.mla@leg.bc.ca; Hogg.MLA, Gordon LASS:EX; gary.holman.mla@leg.bc.ca; Horne.MLA, Douglas LASS:EX; marvin.hunt.mla@leg.bc.ca; lgreg.kyllo.mla@leg.bc.ca; Lake.MLA, Terry LASS:EX; linda.larson.mla@leg.bc.ca; Lee.MLA, Richard LASS:EX; Letnick.MLA, Norm LASS:EX; Martin.MLA, John LASS:EX; McRae.MLA, Don LASS:EX; mike.morris.mla@leg.bc.ca; coralce.oakes.mla@leg.bc.ca; Pimm.MLA, Pat LASS:EX; Plecas.MLA, Darryl LASS:EX; Polak.MLA, Mary LASS:EX; Reid.MLA, Linda LASS:EX; Reimer.MLA, Linda LASS:EX; Rustad.MLA, John LASS:EX; michelle.stilwell.mla@leg.bc.ca; Stilwell.MLA, Moira LASS:EX; todd.stone.mla@leg.bc.ca; Sturdy.MLA, Jordan LASS:EX; sam.sullivan.mla@leg.bc.ca; Sultan.MLA, Ralph LASS:EX; jackie.tegart.mla@leg.bc.ca; Thomson.MLA, Steve LASS:EX; Thornthwaite.MLA, Jane LASS:EX; laurie.throness.mla@leg.bc.ca; amrik.virk.mla@leg.bc.ca; teresa.wat.mla@leg.bc.ca; andrew.wilkinson.mla@leg.bc.ca; Yamamoto.MLA, Naomi LASS:EX; Yap.MLA, John LASS:EX

Subject: Greenest LNG and unconventional oil and gas

Hi, Happy Friday (beautiful, sunny Oct Fri),

two articles pasted on below: hope you've seen Merran Smith in The Sun on addressing greenhouse gas pollution across the entire span of LNG production;

and below that a blog post by Mark Jaccard: there is a unifying carbon budget science argument against coal, oilsands and/or LNG expansion but, knowing your constituents are relentlessly local and temporal (human focus evolved over cons), you MLAs are going to focus on coal dust, or pipeline spills and whether bitumen floats or not, or on fracking effects on groundwater or seismic events or cumulative damage from a great number of separate wellheads. And economic arguments. Fine, but who is going to show foresight and leadership and focus attention on the much bigger picture of much greater consequence to your constituents if you take a longer view?

It is going to have to be the cleanest LNG - from the wellhead, carbon budget science, etc. - so careful of good money after bad in "unburnable carbon assets".

Premier must keep 'cleanest' LNG promise

By MERRAN SMITH, Vancouver Sun October 17, 2013

<http://www.vancouversun.com/technology/Premier+must+keep+cleanest+promise/9046586/story.html>

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Photograph by: Ian Smith, PNG , Vancouver Sun  
We've been hearing it for the better part of two years.

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Merran Smith is the director of Clean Energy Canada at Tides Canada.

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From: Nicholas Heap [mailto:NicholasHeap@canwea.ca]  
Sent: Friday, June 21, 2013 3:42 PM  
To: OfficeofthePremier, Office PREM:EX  
Subject: Congratulations from the Canadian Wind Energy Association

Dear Premier Clark:

Please find attached a letter of congratulations from the Canadian Wind Energy Association on the victory of the BC Liberal Party in the recent provincial election.

Best regards.

— — — — —  
Nicholas Heap  
BC Regional Director  
Canadian Wind Energy Association  
#210 - 128 W. Hastings St.  
Vancouver, BC V6B 1G8

Tel: (800) 922-6932 x244 | Cel: (604) 351-7067  
Email: nicholasheap@canwea.ca | Web: www.canwea.ca

WindVision 2025: A Strategy for British Columbia |  
[http://www.canwea.ca/windvision\\_bc\\_e.php](http://www.canwea.ca/windvision_bc_e.php)

Network and generate business leads at CanWEA's Annual Conference and Exhibition being held October 7-10, 2013 in Toronto, Ontario: [www.canwea2013.ca](http://www.canwea2013.ca)  
Venez réseauter et générer des occasions d'affaires au Congrès annuel et salon professionnel de CanWEA qui se tiendra du 7 au 10 octobre, 2013 à Toronto, en Ontario : [www.canwea2013.ca](http://www.canwea2013.ca)

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June 21, 2013

The Honourable Christy Clark  
Premier of British Columbia  
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Station PROV GOVT  
Victoria, BC  
V8W 9E1  
Sent via email: [premier@gov.bc.ca](mailto:premier@gov.bc.ca)

**RE: Congratulations and meeting request**

Dear Premier Clark,

On behalf of the Canadian Wind Energy Association (CanWEA) – representing 350 member organizations in Canada's wind energy sector – I would like to extend my congratulations to you and your team on your recent election victory.

CanWEA offers our support and assistance to the BC Government in achieving the interconnected goals you have recently set out to cabinet:

- Ensure that LNG operations in British Columbia are the cleanest in the world;
- Maximize the use of clean power in LNG projects while preserving maximum provincial revenue generation opportunities;
- Minimize rate increases to consumers and industry at BC Hydro while continuing to replace and build hydroelectric and transmission infrastructure;
- Work with the Clean Energy sector to ensure that there remain significant opportunities for renewable energy companies to provide power to British Columbia;
- Work with BC First Nations that are impacted by natural gas extraction, pipelines or LNG facilities to ensure they are provided with the ability to participate in this generational opportunity;
- Work with BC First Nations to ensure they participate in the Standing Offer Program by BC Hydro through the First Nations Clean Energy Business Fund;
- Create a roundtable of representatives from communities, industry, labour, First Nations and the environmental sector to provide guidance on how to balance environmental protection with economic development; and

710 – 1600 Carling Ave. W/O  
Ottawa ON Canada K1Z 1G3  
Toll free/Sans frais > 1 800 922.6932  
T> 613 234.8716 F> 613 234.5642 [www.canwea.ca](http://www.canwea.ca)







- Undertake a review of provincial permitting processes to eliminate red tape wherever possible while maintaining rigorous permitting requirements.

Wind energy in BC is already generating hundreds of gigawatt-hours of electricity at prices competitive with other sources of new electricity, all while keeping our province's emissions of air pollutants and greenhouse gases at a near zero level. And wind energy has become even cheaper in the past few years: in January 2013, BC Hydro stated that wind energy resources now form the bulk of the province's lowest-cost renewable generation opportunities.

The critical investment needed to provide large amounts of low-emission and cost-competitive supplies of electricity to the LNG export facilities proposed for BC's north coast is a reliable new transmission line between Prince George and tidewater. Mindful of the potential for a public-private partnership approach to avoid additional capital investment requirements at BC Hydro while enabling the strengthening of BC Hydro's transmission infrastructure, CanWEA and Clean Energy BC have commissioned power transmission experts to provide estimates for the cost and construction timelines required to construct such a line under a P3 or similar arrangement, and we plan to provide our final results to your government shortly.

British Columbia has the great advantages of its natural gas resources, its proximity to Asian markets, and its extensive low-cost renewable energy resources. We are keen to work with you and your government to fulfill your mandate that liquefied natural gas (LNG) exported from BC be the cleanest in the world. We are confident of wind energy's potential to provide BC with a strong competitive advantage while strengthening the domestic social licence for development locally, throughout the province and around the world.

CanWEA would appreciate the opportunity to meet with you and your team in order to further discuss how CanWEA and its members can help you achieve your government's goals.

Yours sincerely,

Nicholas Heap  
BC Regional Director

710 – 1600 Carling Ave. W/O  
Ottawa ON Canada K1Z 1G3  
Toll free/Sans frais > 1 800 922.6932  
T> 613 234.8716 F> 613 234.5642 [www.canwea.ca](http://www.canwea.ca)



From:

S22

Sent: Wednesday, July 24, 2013 4:45 PM

To: OfficeofthePremier, Office PREM:EX; Coleman.MLA, Rich LASS:EX

Cc: BC NDP; info@greenpartycanada.ca

Subject: LNG DEVELOPMENT CONTRADICTS YOUR B.C. "GREENHOUSE GAS GUIDE"  
- DANGEROUS POLICY FOR B.C. CHILDREN!

Madam Premier, Mr. Coleman

Please rethink your fossil fuel (LNG) trade policy, considering the future well-being of all humanity and B.C. children!

FOCUS INSTEAD ON "CLEAN" EXPORTS AND JOB MAKERS AND ALTERNATIVE ENERGY PRODUCTION!

PLEASE, THERE MUST BE A BETTER WAY THAN LNG!

I quote from your B.C. 2008 Greenhouse Gas Emission Assessment Guide:

"Climate change is one of the greatest challenges facing British Columbia and the world. Governments, businesses and individuals around the world are learning how to change their practices and procedures to meet this challenge, by identifying ways to reduce emissions of the greenhouse gases that cause climate change."

Liquid Natural Gas is a fossil fuel, a major producer of GREENHOUSE GASES. To actively produce this product merely to temporarily increase B.C. jobs and income at this particular time in the history of mankind is criminal!

Frankly, with current scientific proof of global harm, selling fossil fuels is equivalent to trafficking in heroin! Many innocent people suffer from its use. There are serious, and rapidly growing, "external costs" to society and individuals.

THE THREE MOST POTENT GREENHOUSE GASES ARE ALL PRODUCED BY FOSSIL FUELS LIKE LIQUID NATURAL GAS:

1. Carbon dioxide is the main contributor to climate change, especially through the burning of fossil fuels.
2. Methane is produced naturally when vegetation is burned, digested or rotted without the presence of oxygen. Large amounts of methane are released by cattle farming, waste dumps, rice farming and the production of oil and gas.
3. Nitrous oxide, released by chemical fertilizers and burning fossil fuels, has a global warming potential 310 times that of carbon dioxide.

Please, reconsider marketing LNG, Oil or Coal.

SHOW INNOVATIVE "CLEAN ENERGY" LEADERSHIP FOR THE URGENT, 21ST CENTURY, "LIFE AND DEATH" CLIMATE CHANGE THREAT!

Sincerely,

S22

-----Original Message-----

From: S22  
Sent: Saturday, October 12, 2013 10:33 AM  
To: OfficeofthePremier, Office PREM:EX  
Cc: Dix.MLA, Adrian LASS:EX; info@betterfuturebc.ca  
Subject: Climate Responsibility

Dear Sir and Madam,

The recently released IPCC report makes it increasingly clear that British Columbia cannot jeopardize its natural resources by running risky oil pipelines or engaging in fracking that will inevitably contaminate our valuable watersheds. Nor should we be allowing companies like Nestle to siphon hundreds of millions of gallons of our water without paying the people of British Columbia for the privilege. I write in the hopes that you will see that the sooner we recognize that our future is in sustainable technologies and appropriate valuing of our natural riches, the better prepared we will be for the challenges of climate change and the further ahead we will be in the race for a more prosperous future.

As we begin developing our LNG resources, please ensure the government sticks to its commitment to develop LNG with lower life cycle greenhouse gas emissions than anywhere else in the world. BC needs to keep the excess 17 million tonnes of carbon emissions threatened by less efficient LNG in the ground. Please recommit to meaningful climate leadership for BC.

Thank You,

S22

From: S22  
Sent: Sunday, July 21, 2013 3:37 PM  
To: OfficeofthePremier, Office PREM:EX  
Subject: LNG/OIL

Congrats on election.  
Reference: LNG and Oil.

Please be very careful on emphasis of energy export. Concentration on LNG export should NOT be a focus point since there are, as always, consequences of single point solutions that will not be in the long term interest of the province nor the country. Please get at least three reports on the long term consequence of export of LNG as well as oil, covering reserve, proven reserve, production, capital costs, CO2 emissions, international price and domestic price for natural gas as a consequence of demand/supply projections. Include the fact that end use of LNG and oil is different and effect on GHG's from this use is different and consequential. LNG with Oil Product export would be better long term for the province/country is an improved scenario to my experience. My primary concerns are:

1.0 Gas produced from fracturing does not have a continuous long term production rate. The rate is high initially but falls significantly (two to six factor) within a period of six to 24 months. The fracturing closes thereby slowing the flow. Remedy is to refract which means new drilling, with additional capex which in turn leads to high production cost then retail costs. The gas reserve may be calculated high but the recovery is not guaranteed thus a fluctuating supply which translates to unstable pricing—generally upward you may be assured! Then subject to manipulation! The price we pay for gas is tied internationally to the price of oil although this aspect could be changed at a government level by 'unhooking' from oil and two tiered— one for the country, one international to allow the benefit to accrue to the countries people.

2.0 Consider only export of oil product not crude. There is a significant change coming in amount of product used in transportation—to the decreased use side---this will affect the price of natural gas as well as the price of gasoline/diesel fuel. The tar sands proven reserve is good for 155 years and that is only 85% of the total reserve. There is no exploration cost. Encourage a refinery on the coast--it is in the long term interests of the province/country.

This is a complex topic and careful study is in our interests for the longer term. There are many more significant factors to study and react not just to an immediate solution for today's situation. Remember that our hydrocarbon resource should be valuable for generations to come.

Regards,

S22

From: S22  
Sent: Monday, October 14, 2013 10:34 PM  
To: Dix.MLA, Adrian I.ASS:EX: OfficeofthePremier, Office PREM:EX  
Cc: info@betterfuturebc.ca  
Subject: LNG proposal

Dear Premier Clark, and Adrian Dix

Please stick to your commitment to to ensure our government develops LNG with lower life cycle greenhouse gas emissions than anywhere else in the world. LNG doesn't begin and end at the plant's fence line. Please recommit to meaningful climate leadership.

For our future, thank you.

S22      father of two, two yos.

-----Original Message-----

From: S22  
Sent: Tuesday, October 1, 2013 22:14  
To: OfficeofthePremier, Office PREM:EX  
Cc: info@pacificwild.org  
Subject: LNG is no good for B.C.  
Importance: High

Honourable Christy Clark  
Premier of British Columbia

Dear Premier Clark,

I am writing to express my concern over your government's plan to export liquid natural gas (LNG) through the Great Bear Rainforest.

I am concerned about this plan because LNG is an incredibly energy-intensive fuel. The liquefaction and re-gasification processes alone generate greenhouse gas emissions equivalent to those produced by domestic coal. Expanding fracking and LNG exports will put B.C.'s climate action targets gravely out of reach, something we simply cannot afford.

Current LNG export proposals could introduce as many as 2,800 super-tanker transits to B.C.'s pristine north coast on an annual basis. The risk of ship strikes to endangered whales and other marine mammals is significant.

Additionally, LNG export implies increase natural gas fracking in north-eastern B.C.. Fracking is the only known human-cause of earthquakes. It relies on dozens of toxic chemicals, which undoubtedly pollute ground water aquifers. Fracking is so dangerous that it is banned in France, Bulgaria and the U.S. state of Vermont; the practice is also under moratorium in Quebec.

The fact that proposed LNG export projects are being encouraged, even relied upon, by you and your government prior to comprehensive impact assessments have taken place is short-sighted.

I urge you take a step back and await the results of a full environmental assessment before making any decisions on the export of LNG. B.C. needs a strategy to help regulate industrial development and energy exports to ensure a sustainable and prosperous future.

I look forward to your reply,

S22

cc.

Honourable Rich Coleman— Minister of Energy, Mines and Petroleum Resources Honourable Terry Lake—Minister of Environment Honourable Steve Thomson—Minister of Forests, Lands and Natural Resources

-----Original Message-----

From: S22  
Sent: Wednesday, October 16, 2013 10:01 PM  
To: OfficeofthePremier, Office PREM:EX  
Cc: david.ehy.mla@leg.bc.ca  
Subject: B.C. needs strategic overview of LNG - Opinion - Vancouver Courier, Les Leyne

<http://www.vancourier.com/opinion/b-c-needs-strategic-overview-of-lng-1.660085>

Dear Premier Clark,

Your government is failing B.C. on the LNG development in Northern B.C. See this article in The Vancouver Courier which makes that very clear. You must realize that citizens are now aware of the LNG "wild west" boom in the North and do not support such an irrational approach. Your LNG expansion plans are a big problem for B.C. Please act responsibly now to get some semblance of control.

Five basic points:

First, your government is neglecting to provide oversight, planning strategy or framework to the development of LNG projects. It is unsafe, disorganized and disconnected --"pipeline routes look like a dish of spaghetti." (Richard Overstall, Northwest Institute for Bioregional Research)

Second, not considering the cumulative impact of the carbon emissions from all the projects. You are far from meeting any of B.C.'s GHG targets which your government set if development projects go into operation.

Third, not looking ahead to educating B.C. workers who may want jobs to benefit from development.

Fourth, you are not thinking of the future by planning for a green economy and sustainable energy. Should I insert photos of our grandchildren?

Fifth, there is concern that these developments are using precious water resources in continuing fracking.

Your government and corporations should know that inadequate environmental studies will possibly cause a shut down of operations. Note: Controversial Shell Gas Plant was recently shut down in County Mayo Ireland, ordered by court, as citizens won against Shell due to inadequate environmental reviews.

Act like a responsible government, it is the least we ask.

Thank you,

S22

S22

Sent from my iPad



From: S22  
Sent: Wednesday, November 20, 2013 20:53  
To: OfficeofthePremier, Office PREM:EX; McRae.MLA, Don LASS:EX  
Subject: A constituent's concern re Ms Clark's recent comments

Dear Premier Clark,

I was dismayed to hear your comments on CBC recently, regarding LNG expansion, in which you presented BC's commitment to targets for reducing green house gas emissions as a 'barrier to getting to yes'. It sounds very much as if you are already at 'yes', and not interested in any impediments to your goal of tying our economy to rapid expansion of and export of LNG.

As you say, you have chosen to take the view that BC would be 'doing the world a favor' by exporting LNG to China, where you are certain that LNG will result in dramatic reductions of thermal coal use, and therefore a net reduction in world wide greenhouse gas emissions. I would suggest that this is a choice founded in wishful thinking to fit your political agenda and not in scientific or economic wisdom. I was actually shocked that someone in your position of responsibility would present this as your considered opinion.

I urge you to examine your very arbitrary and simplistic choice in the light of more thoughtful and thorough scientific and economic research. Two places, out of many, at which to start would be the Globe and Mail of November 9, 2013 for a detailed look at China's energy use and pollution problems, and CBC's On the Coast for November 13th in which a well researched UBC professor talks about the current facts around LNG and GHG emissions with reference to production in Canada and export to China.

Both of these sources present a view very different from your optimistic prognosis for huge job numbers and revenue for BC while magically generating net GHG emissions reductions world wide. It is much more likely that China will burn LNG in centers where smog is an issue and continue to use as much and more thermal coal elsewhere to satisfy its demand for growth. NG may be cleaner to produce, but LNG has a huge carbon footprint in its production, resulting in anywhere from 16% to 100% more GHG emissions before leaving Canada. The economic boon may well be much less than you anticipate due to a combination of factors such as China already producing her own LNG, and other countries being further along in production than BC (Australia and Saudi for example) thereby driving down the price.

I urge you to research the true cost to BC and the world of rapid expansion of LNG. Please do not tie our economic future to this damaging and short sighted path. Our continued use of fossil fuels should be at a measured and thoughtful pace, linked to development of more sustainable and less harmful energy sources.

I further note that the new Environment Minister is fully on board with the view of the economy ahead of the environment. She maintains that we are already meeting and exceeding GIIG emissions targets. Again, even if this were narrowly true, I would suggest that the real cost of projects such as you propose have not been fully examined. It has also not escaped my attention that Mr. Bennett, the Minister of Energy and Mines, is in charge of the Core Review, which has serious implications for the protection of agricultural land in this province. He too expresses opinions favorable to re-examining the ALR in such areas as Fort St. John where LNG expansion

is slated to take place. And not to forget Agriculture Minister Pimm who has clearly forgotten that the ALC is an independent body. It would seem that all these Ministries are as eager as you are to 'get to ycs'. I would urge you all to turn to strong unbiased research before you make such significant decisions on our behalf.

Sincerely,

S22

Courtenay BC

From: James Tansey [mailto:james@offsetters.ca]  
Sent: Thursday, August 29, 2013 12:14 PM  
To: OfficeofthePremier, Office PREM:EX  
Subject: RE: LNG, offsets and innovation

Premier Clark

Please find attached a letter that I have sent in hard copy to your offices. I would be grateful if you could confirm receipt and I am happy to meet to discuss the issues I raise in the letter with your ministers and their staff.

Very best wishes

James



August 29, 2013

Premier Christy Clark  
740-999 Canada Place,  
Vancouver, BC,  
V6C 3E1

Dear Premier Clark,

The Province of British Columbia has emerged as a global leader in climate policy over the last five years and the potential for the development of an LNG sector that can produce fuel at a scale that will have significant impacts on greenhouse gas emissions in Asia and N. America is the next chapter in that story.

I am writing to request you consider a number of key suggestions that will ensure that, as a Province, we can genuinely claim to host the greenest natural gas sector in the world. I think there are some key opportunities to link our investment in the LNG sector with the broader innovation agenda within the province. While I don't claim to represent the clean technology sector, my company is the largest carbon management company in Canada and one of the largest in North America. We've been able to achieve some of this growth due to the forward thinking policies of this government. We have established the two largest forest carbon projects in the world, one of which is in BC, and we work with global leaders on climate policy including lululemon, Aimia, Dow Industries and Harbour Air, the world's only carbon neutral airline. We've taken what we learned from the carbon neutrality programme during the 2010 Olympics to Sochi and we will be taking those lessons to Brazil in 2016.

As we look out at the development of the LNG facilities it is important to recognize that while the carbon tax is a highly progressive policy, it does not reduce emissions significantly from large-scale energy intensive operations: there is still much more carbon dioxide in the atmosphere once the facilities are built. The carbon tax places a price on carbon that encourages innovation, but it can't eliminate carbon dioxide from electric or direct drive LNG facilities. The only way to deal with those additional emissions is to build on the robust offset policy laid out in the BC Emission Offsets Regulation (BCEOR).

While other jurisdictions in North America, including Alberta, Quebec and California have offset regulations in place, our system offers the highest quality assurance and the widest array of project types. BC has been a leading innovator in offset policy through the creation of protocols in forestry, fuel switching and energy efficiency, to name a few. In the process of delivering on the government's carbon neutrality obligations, these projects have leveraged hundreds of millions of dollars of investment into technology, projects in truck transportation and the forestry sector. Notwithstanding the misguided and poorly executed review of the Auditor General—whose finding your government rightly rejected—we have a regulatory system that is world class.

As the LNG proponents have begun to develop their business cases in the Province, we have spoken to them at length about the role of offsets in the development of LNG facilities. We have been surprised by the willingness of companies like Shell, Petronas and BG to embrace offsets and it is clear that they face significant pressure from their shareholders and other stakeholders to mitigate emissions from their operations. We recently ran an RFP to sell offsets on behalf of our project owners in BC and the five largest



proponents expressed a strong interest in investing in offset projects immediately, as long as government provides the appropriate regulatory guidance. That purchasing activity will translate into significant revenues within the province, well ahead of revenues from LNG sales as the proponents will seek to manage costs by building up offset inventory. These investments in rural and First Nations communities can only help to build on their social license to operate.

Building on our experience in the sector and our interactions with the industry, my key suggestions are as follows:

1. Amend the Environmental Management Act to include emissions from LNG facilities either entirely or against a baseline of emissions based on the carbon intensity of power supplied by BC Hydro. The only way we can genuinely claim that the Province's LNG facilities are the cleanest in the world is if the proponents invest in projects that remove greenhouse gas emissions from the atmosphere.
2. Shift the role of government towards supporting innovation in this climate policy. The Pacific Carbon Trust has played an important role in establishing the sector and now the private sector can lead in the development of projects in response to demand from the LNG developers. The PCT and the Ministry of Environment should focus on regulatory innovation, policy and protocols, perhaps under the banner of a Climate Innovation Secretariat.
3. Recognize that for the First Nations of British Columbia, clean power and carbon neutral operations are considered fundamental to the social license to operate of the LNG proponents. The First Nations in the Great Bear Initiative as well as other nations in the north east of the province stand to benefit from conservation and forestry projects that absorb carbon from the atmosphere. These projects create jobs and attract significant investment.
4. Develop a broader carbon accounting framework that allows companies to get credit for capital investments in infrastructure that produce emissions reductions over years or decades. Current accounting rules limit how much credit they can receive and the framework we developed for Dow Industries, which will be released by the UN Global Compact in Warsaw in November enables crediting for long-term investments in infrastructure. It is another example of a made-in-BC climate innovation that I believe we should embrace.

At this stage in the development of our LNG resources, I urge you to provide the clarity that the proponents are seeking. They are able and willing to innovate in respond to clear regulatory signals. It is that private sector innovation that will ensure we maintain our position as a global leader in climate policy.

Yours sincerely,

Dr. James Tansey

President and CEO, Offsetters Climate Solutions

CC: Dan Doyle, Ministers Polak, Bennett, Coleman and Wilkinson.

From: Edson Ng [mailto:edson.ng@pathwayindustries.com]

Sent: Tuesday, November 26, 2013 12:08

To: OfficeofthePremier, Office PREM:EX; Coleman.MLA, Rich LASS:EX; Bennett.MLA, Bill LASS:EX; Thomson.MLA, Steve LASS:EX; andrew.wilkinson.mla@leg.bc.ca

Subject: LNG Production Using G4 Bio Natural Gas

Dear Premier Clark and Ministers,

I would like to take this opportunity to introduce G4 Insights. G4 is a Burnaby based company working on a proprietary thermochemical process to convert forestry biomass into pipeline grade renewable natural gas. The G4 technology will enable distributed production of renewable natural gas in BC forestry communities and use the existing natural gas infrastructure to deliver the gas to end users. The G4 bio natural gas can be used in any unmodified natural gas equipment, vehicle, or appliance.

A potentially interesting use of the G4 bio natural gas is to fuel compressors at proposed LNG production facilities. This will eliminate the GHG emissions from the LNG plants and create 5,000 long term jobs in BC forestry communities to harvest forestry biomass and operate the G4 bio natural gas plants. G4 has kept a relatively low profile but we feel the time is right to engage BC government support for the G4 opportunity. To date, G4 has received support from Ethanol BC, NRC IRAP, Natural Resources Canada, and the California Energy Commission. G4 has installed a process demonstration unit at the National Research Council Energy, Mines , and Environment facility at UBC and we are delivering a Mobile Demonstration Unit to FP Innovations at UBC today. The Mobile Demonstration Unit will be commissioned at FP Innovations and then relocated to California in a few weeks for a high profile demonstration project in Placer County, California (Lake Tahoe area). An overview of G4 company and technology is attached for your reference.

We are interested in hosting a visit at your convenience to showcase the G4 equipment at NRC FME and FP Innovations and to discuss opportunities to support G4 efforts to commercialize its renewable natural gas technology. Please feel free to contact me if you would like more information or to arrange a meeting or tour. Thank you for your consideration.

California Energy Commission news release:

[http://www.energy.ca.gov/releases/2010\\_releases/2010-12-01\\_award\\_EV\\_Biofuels\\_more\\_NR.html](http://www.energy.ca.gov/releases/2010_releases/2010-12-01_award_EV_Biofuels_more_NR.html)

"Biofuel production - \$1,229,966 to G4 Insights, Inc. to test the feasibility of creating pipeline-quality natural gas from forest waste. Placer County will partner with the Canada-based company to test whether G4 Insight's promising low-temperature, thermo-chemical process can effectively convert woody biomass into biomethane that can be used for transportation and other uses. Local team partners include TSS Consultants, with offices in Rancho Cordova, CA; and WorleyParsons, an international design company with offices in Folsom, CA. The team will provide match funding of \$1,232,257 for the project to determine the technical, economic and environmental feasibility of building commercial-scale plants at several rural forest sites in the state. Considering the amount of wood biomass available in California, the team estimates these facilities could produce enough compressed natural gas as a transportation fuel each year to displace 8 percent of gasoline and diesel use in the state. By 2020, the project could create 541 full time jobs running four conversion plants, with a total direct and indirect economic benefit of \$707 million and tax revenues of \$24 million, without considering construction jobs. G4 Insight's

process is expected to create natural gas that reduces greenhouse gas emissions by 85 percent when compared to reformulated gasoline.”

<<...>>

Best regards.

Edson Ng

Principal

G4 Insights Inc.

email [edson@g4insights.com](mailto:edson@g4insights.com)

Tel +1.604.451.9166

Cell S22

Page 64 to/à Page 74

Withheld pursuant to/removed as

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-----Original Message-----

From: S22  
Sent: Tuesday, June 11, 2013 1:55 PM  
To: OfficeofthePremier, Office PREM:EX  
Cc: Elmore.MLA, Mable LASS:EX  
Subject: \$16 billion investment

11 June, 2013

Dear Premier Clark,

Today in BC we are "celebrating" a \$16 billion investment by a foreign company in a greenhouse gas-emitting non-renewable resource, liquid natural gas, whose exploitation will require using countless millions of litres of our fresh water... all in the name of, to quote you, creating "jobs for our kids". Yet if we dare to bring our kids' future into this discussion, shouldn't we talk about what will be left for them when this short-sighted plundering is over?

Sincerely,

S22

From: S22  
Sent: Saturday, November 16, 2013 20:23  
To: OfficeofthePremier, Office PREM:EX  
Cc: Editor; Editor  
Subject: Oil takers off our coast - no increase!

Dear Premier Clark

I am extremely worried about any increase in tanker traffic off our coast. This article from an experienced commercial fisherman says most of what I would say.

This 'hell-bent-for-leather' emphasis on getting our resources out of the ground and into the air and water at breakneck speed strikes me as extremely irresponsible. This is not my idea of progress or good job creation.

What Guy Johnston doesn't talk about are two issues of an equal dire nature. The first is that the insurance industry has said clearly that no oil company carries enough insurance to cover the cost of a spill. The other is that oil tankers are not the responsibility of oil companies, and they have said that clearly. Their responsibility ends when the tanker leaves harbour. And those tankers deliberately fly the flags of countries like Liberia, they are one-tanker companies and do not have any resources to pay for spills.

The federal government gives assurances, but who can believe it, when a real life disaster occurs - it is arguing at length about who should pay for the oil cleanup at Lac Megantic?

Frankly that does not inspire confidence at all.

The countries which are setting a good example in developing resources more responsibly are ones like Germany, which is promoting green technology to a large degree. This has not hurt its economy one bit, as can be seen in the way that it has the most successful economy in Europe and is bailing out other European countries who have been having financial difficulties.

S22 on the B.C coast. I have visited them and seen the beauty of our west coast. The livelihood of many of their neighbours depends on the sea - those in the fishing and tourism industries, to name two.

As Guy Johnston points out in this article, it only takes the failure of one cotter pin or one moment of inattention, and disaster happens. The storms off our coast are some of the worst anywhere, with 100 foot seas not uncommon.

Frankly, I will do anything in my power to stop any increase tanker traffic off our coast. It will be a long time before technology can offer safe transit for oil, and until then it should stay in the ground. Or at least off the oceans.

I am just one voice, but sometimes one voice can work miracles. No amount of propaganda by Enbridge and other in the oil industry can change my mind.

Your espousal of LNG is also irresponsible - it is China who will claim carbon offsets, not us. And who is to say that they will not continue using coal at the same rate, with LNG a nice add-on? The other thing I know is that the cost of producing LNG is going to be borne by the taxpayer, in terms of paying for the Site C dam, which is only being built to support LNG development. I have yet to see a good responsible analysis into the cost of the development of LNG - the fracking, the water pollution, the pipeline cost and so on, and how much the taxpayer is on the hook for. As well, countries like China are developing their own LNG resources, so I can see that we could very well build a dam, build a pipeline, build

processing facilities at Prince Rupert and Kitimat, only to find that our gas is not wanted. This seems to me to be a very likely scenario.

Please slow down, take a breath, and look at slow responsible growth that takes into consideration both the economy and the environment.

S22

Summerland

Pipelines, tankers threaten B.C.'s heritage

Guy Johnston / Times Colonist

November 15, 2013 03:45 PM

Copyright

<http://www.timescolonist.com/comment-pipelines-tankers-threaten-b-c-s-heritage-1.697322>

From: info@nomorepipelines.ca [mailto:info@nomorepipelines.ca]  
Sent: Sunday, July 21, 2013 8:41 PM  
To: OfficeofthePremier, Office PREM:EX; Minister, MNGD MNGD:EX  
Cc: Donaldson.MLA, Doug LASS:EX; Dix.MLA, Adrian LASS:EX; Austin.MLA, Robin D LASS:EX  
Subject: Greetings from pipeline-free, northwestern BC

Good morning, Madam Premier, from the pipeline-free north flank of the Skeena River, a place where helicopters buzz, surveyors cut and slash, and biologists catalogue and measure, all before a single permit for natural gas pipeline construction has been approved or issued.

Madam Premier, you need to ask the constituents of this province what they would like to see happen, or not happen, in the way of mega-resource development; not impose your views. You need to see the outright hypocrisy in BC having a Greenhouse Gas Reductions Target Act and a government that is promoting an industry that, by 2020, could create 80 percent of the greenhouse gas emissions allowed by law in this province. You need to buy a house in Port Edward and contemplate what will be in your front yard if an LNG plant or two are built on Lelu and Ridley islands. You need to think like a wild salmon and imagine what is going to be left if any of this goes ahead. You really need to think about freshwater, vanishing glaciers, forest health, acid rain, and the primary right of citizens to say "no" to government schemes that threaten their physical health and the health of the land.

Dig in, Premier Clark. It's going to be a long battle.

<http://www.nomorepipelines.ca/CookingWithChristy.html>

Have a good day.

nomorepipelines